

FIG. 1

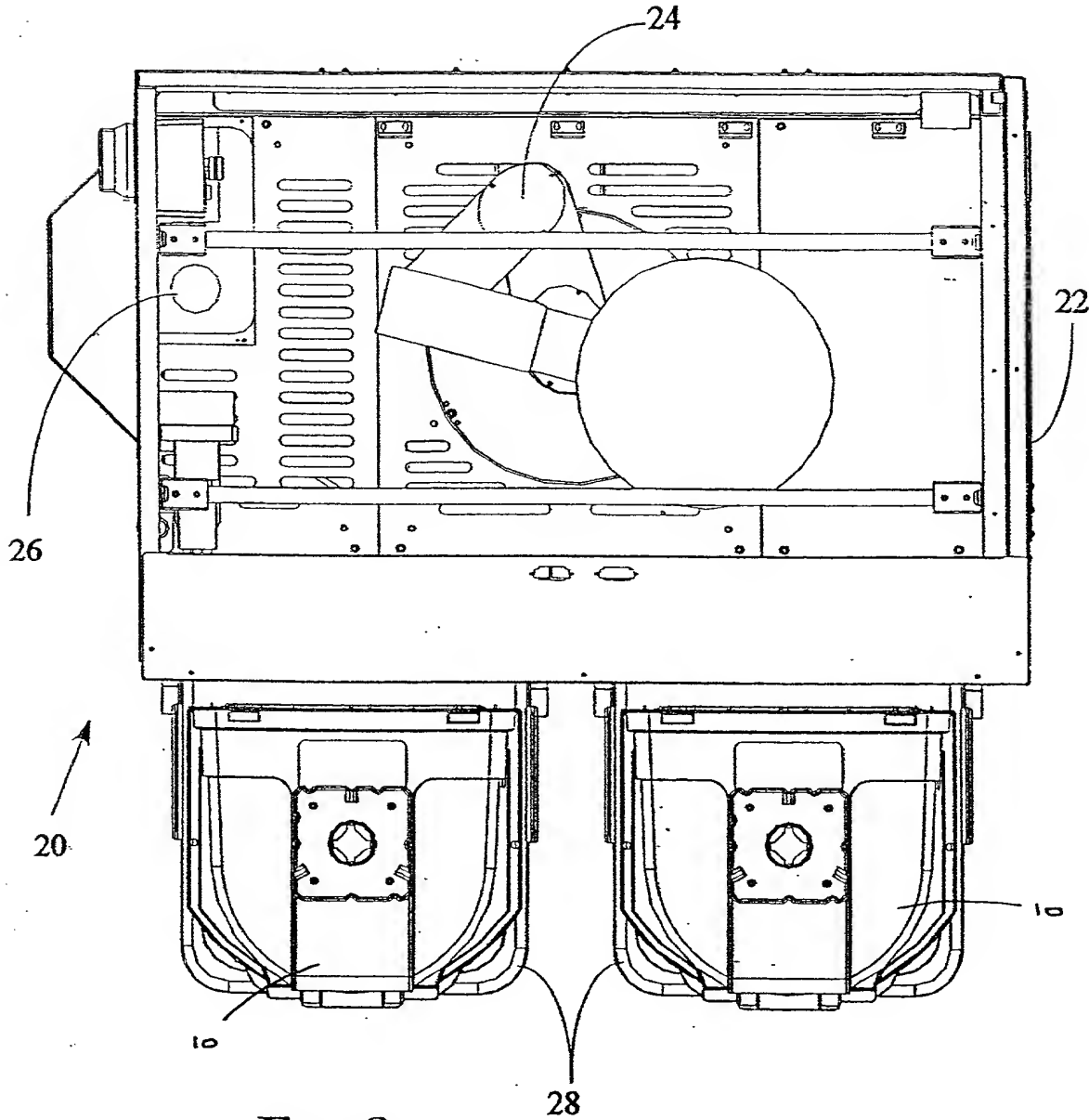


FIG. 2

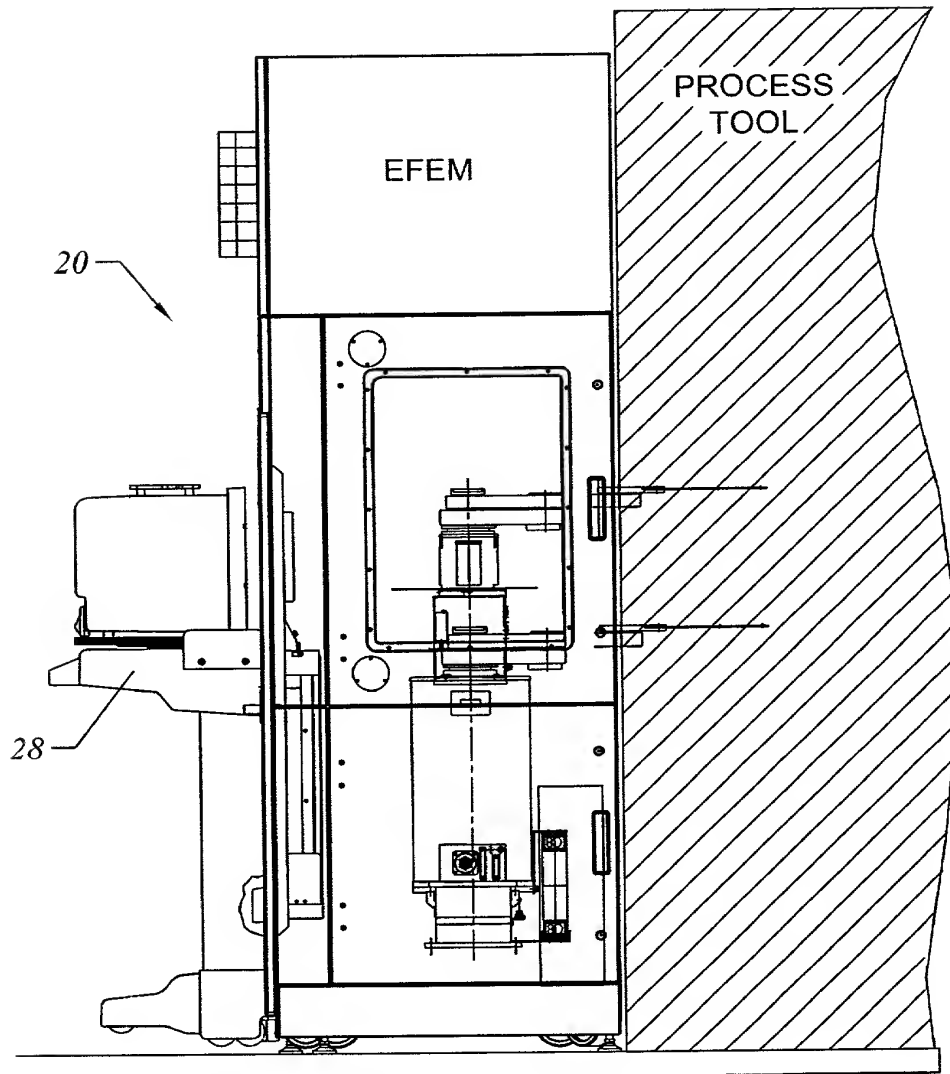


FIG. 3

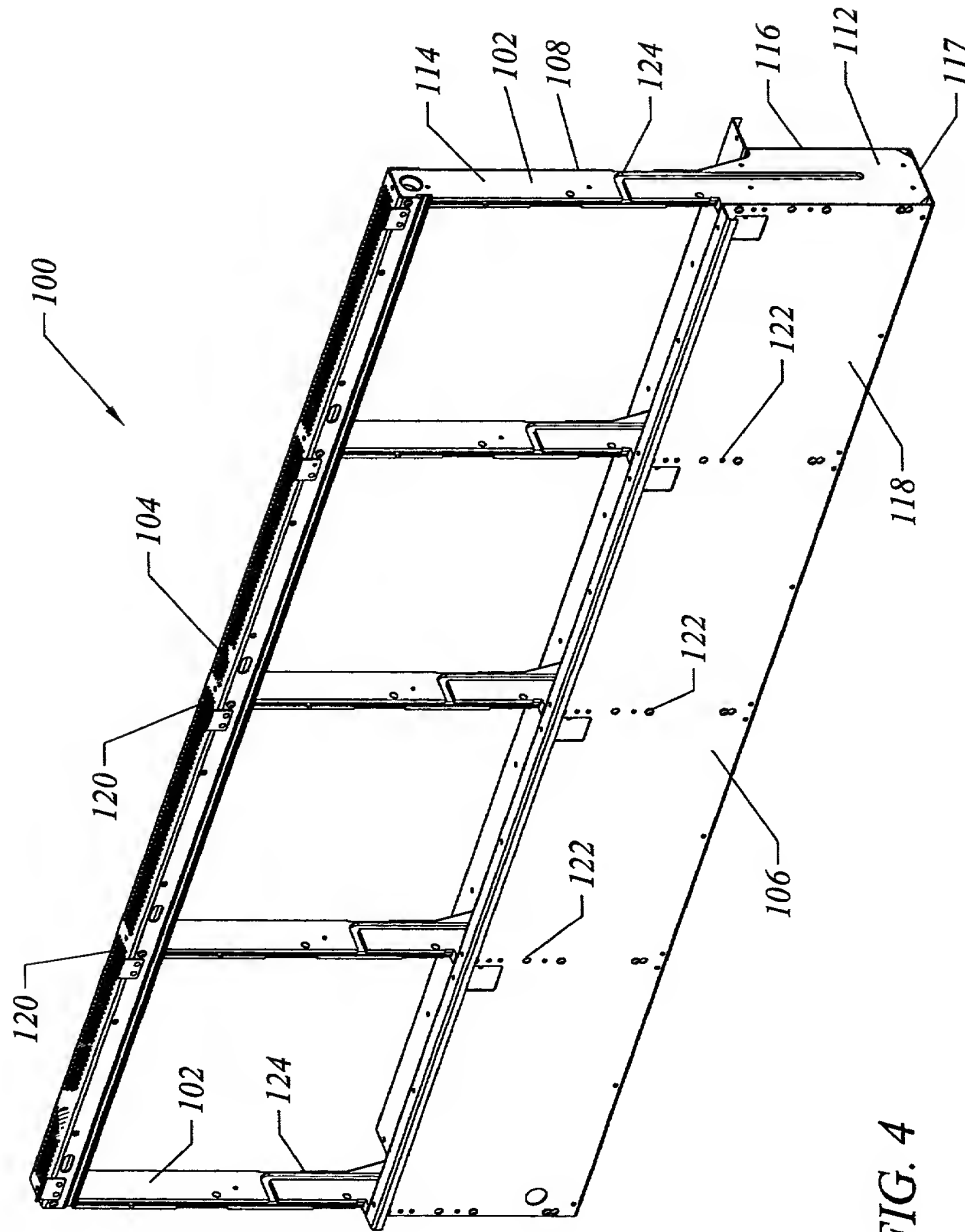


FIG. 4

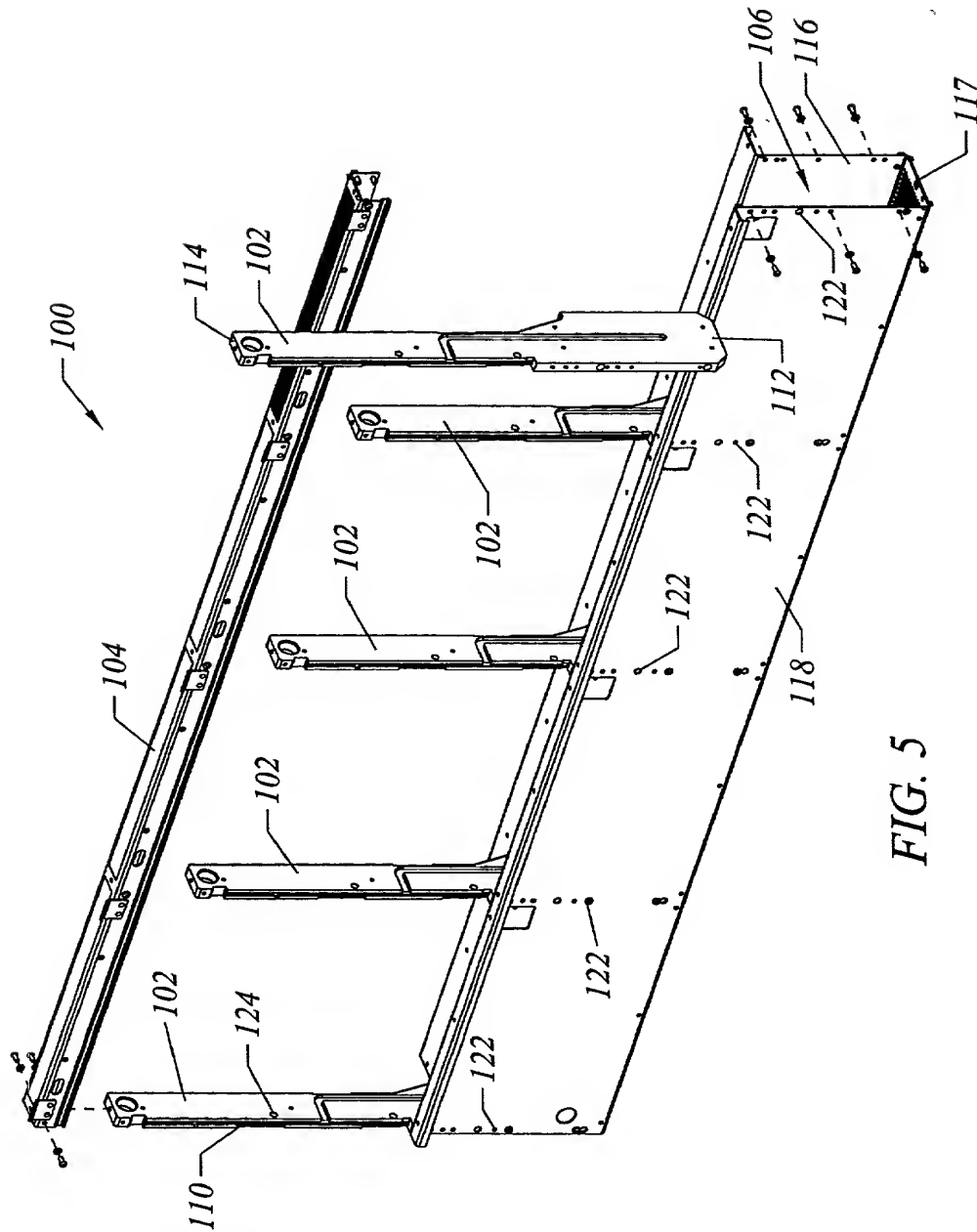


FIG. 5

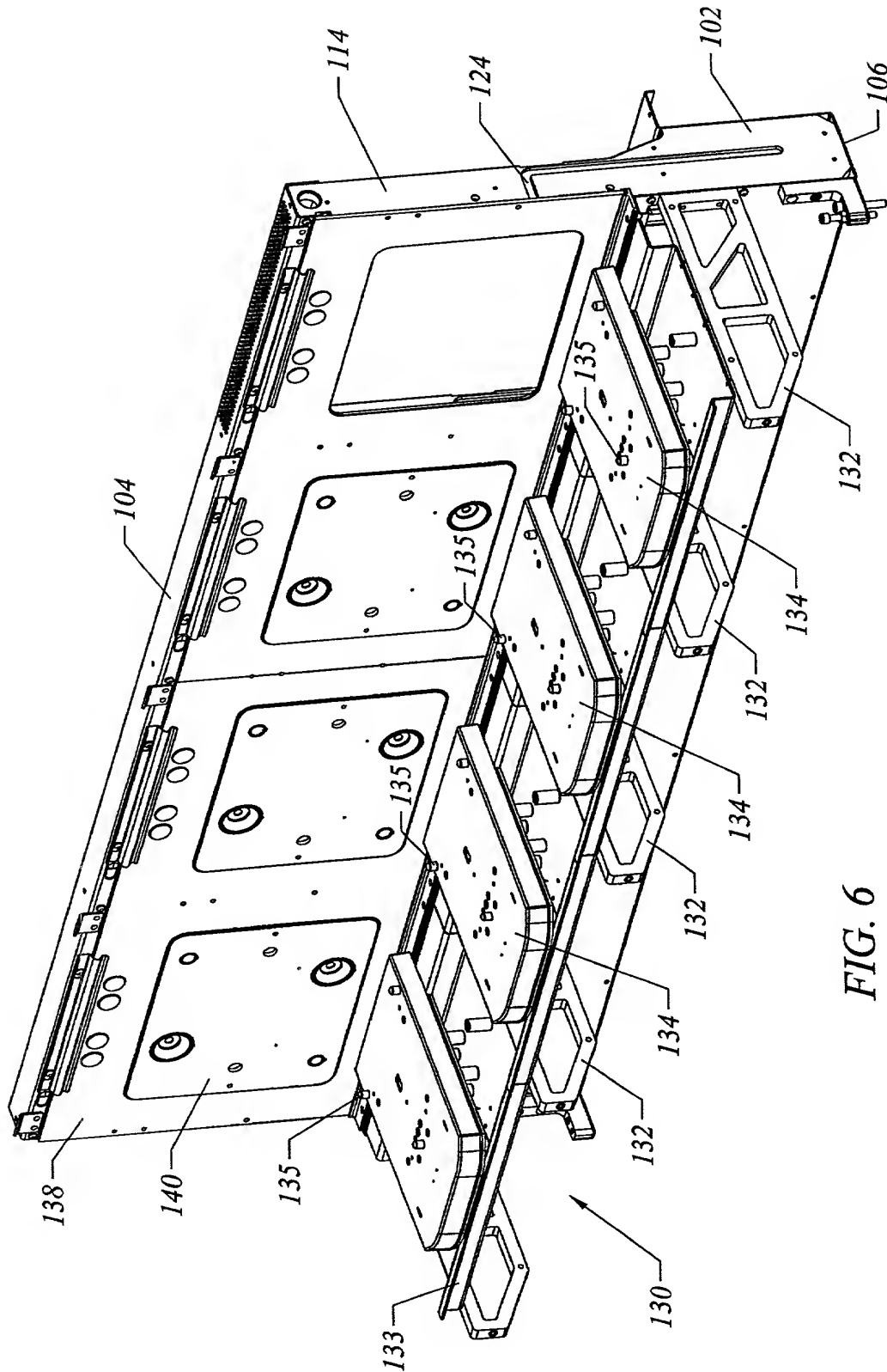
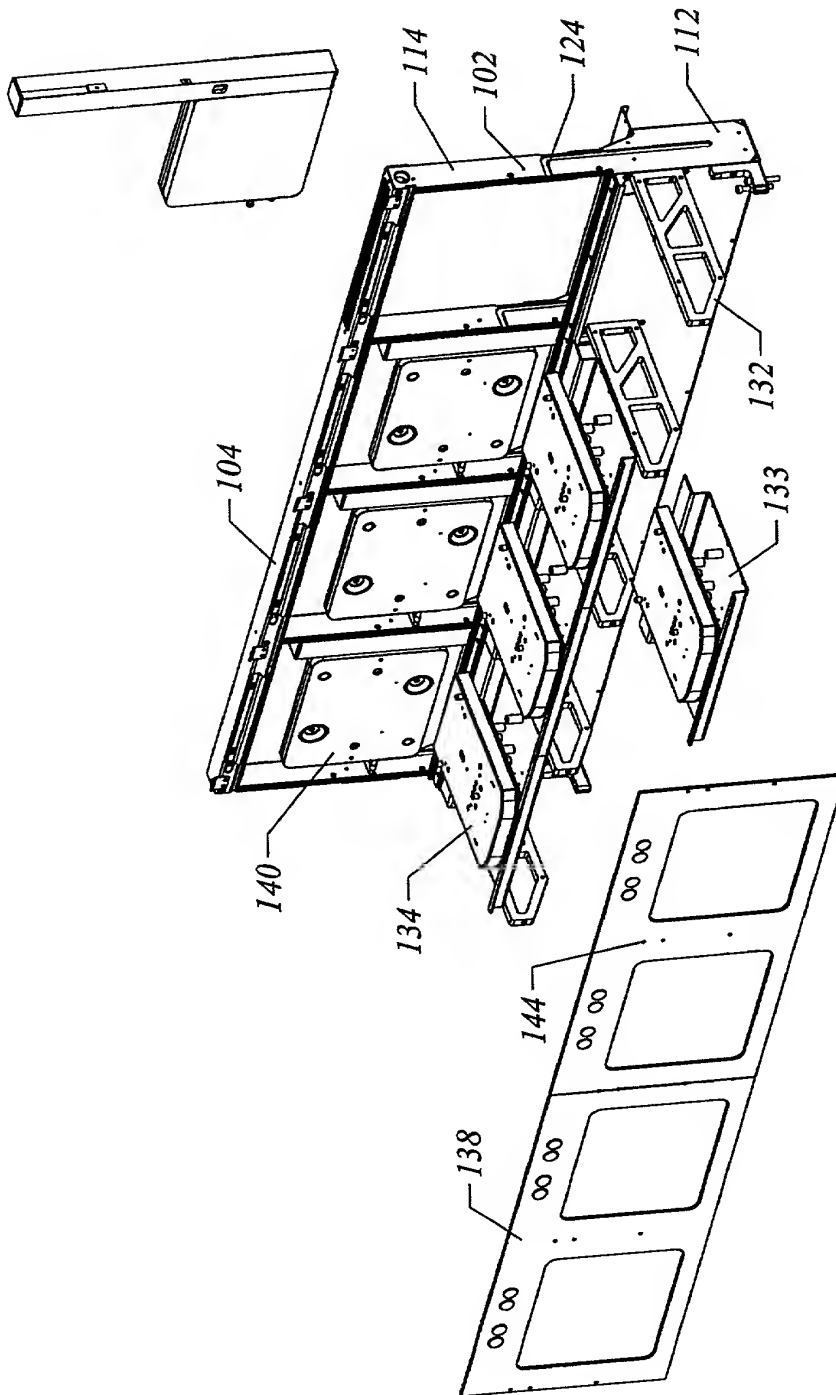


FIG. 6



**FIG. 7**

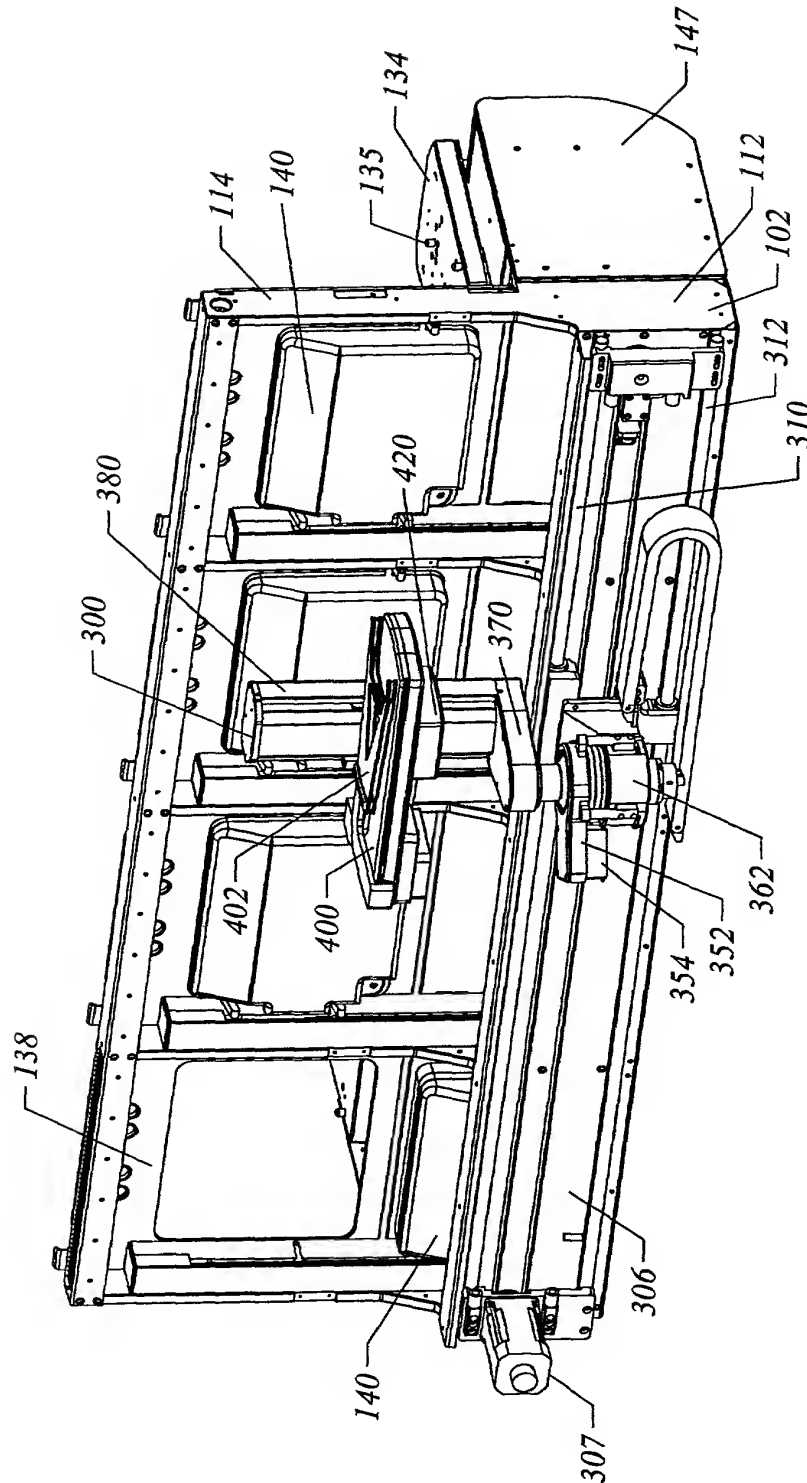


FIG. 8

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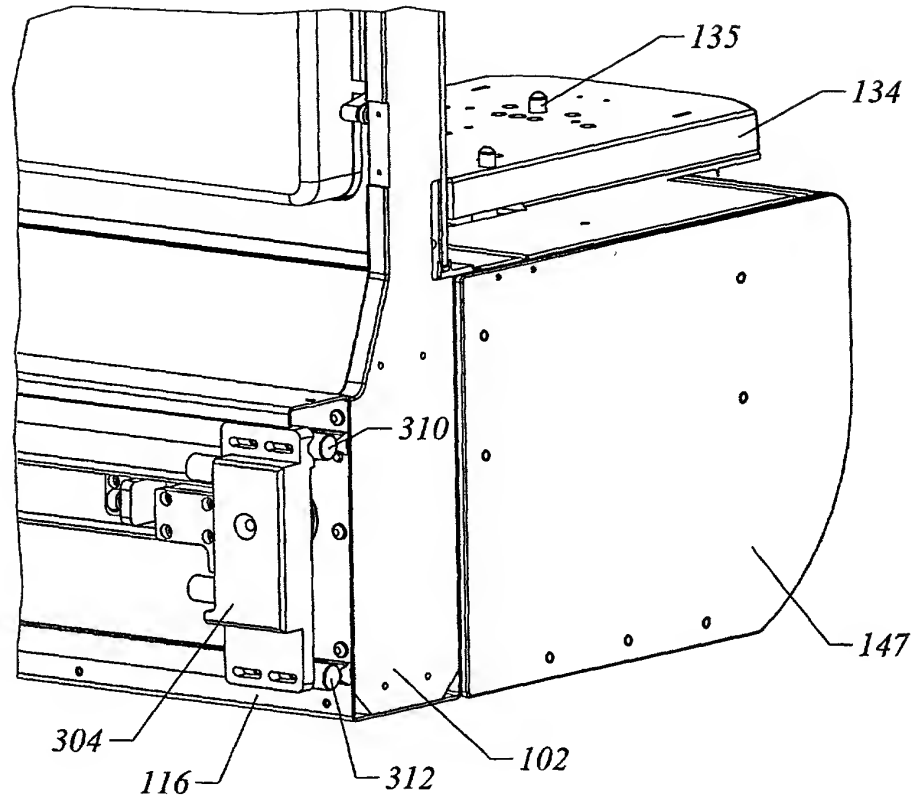


FIG. 9

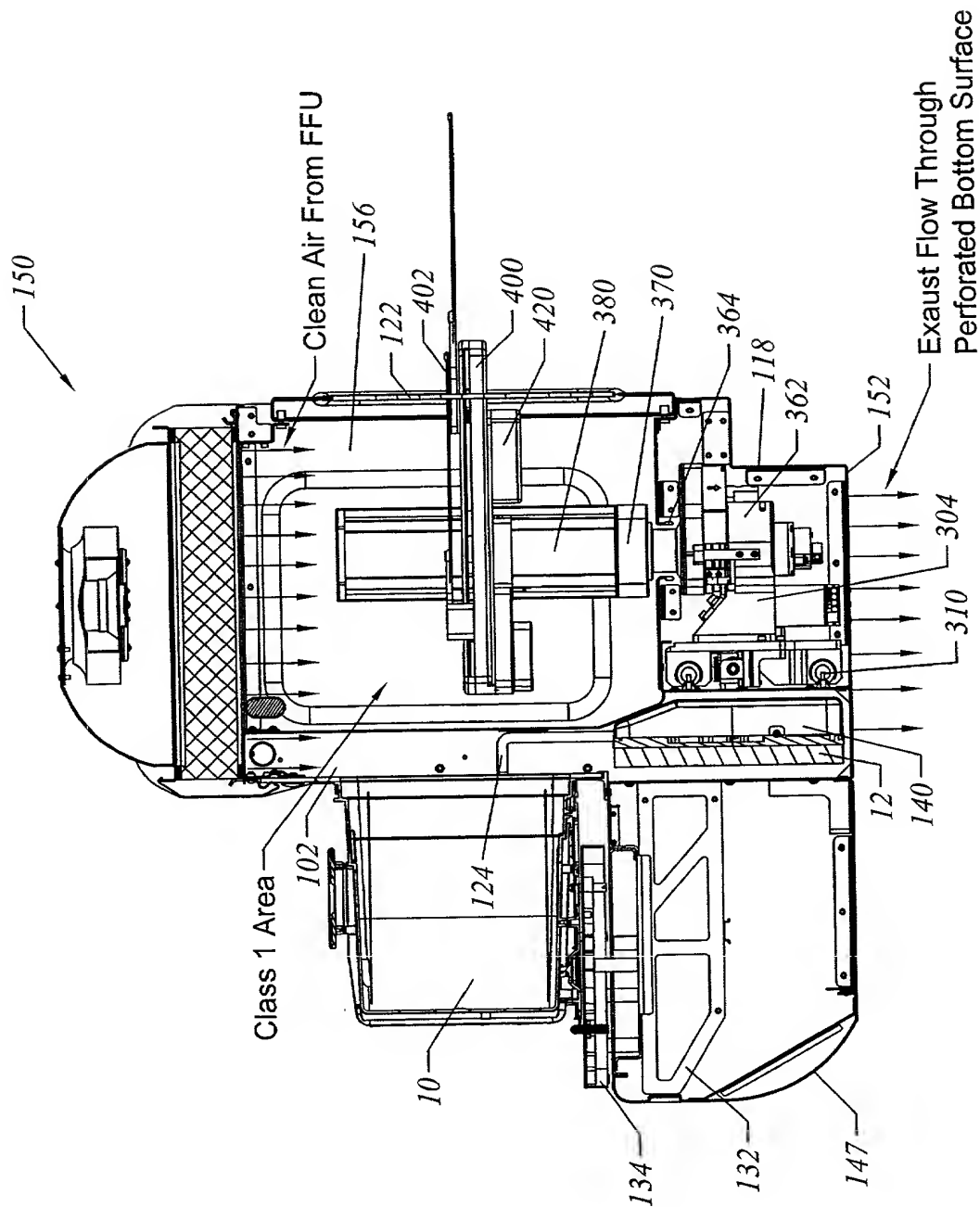


FIG. 10



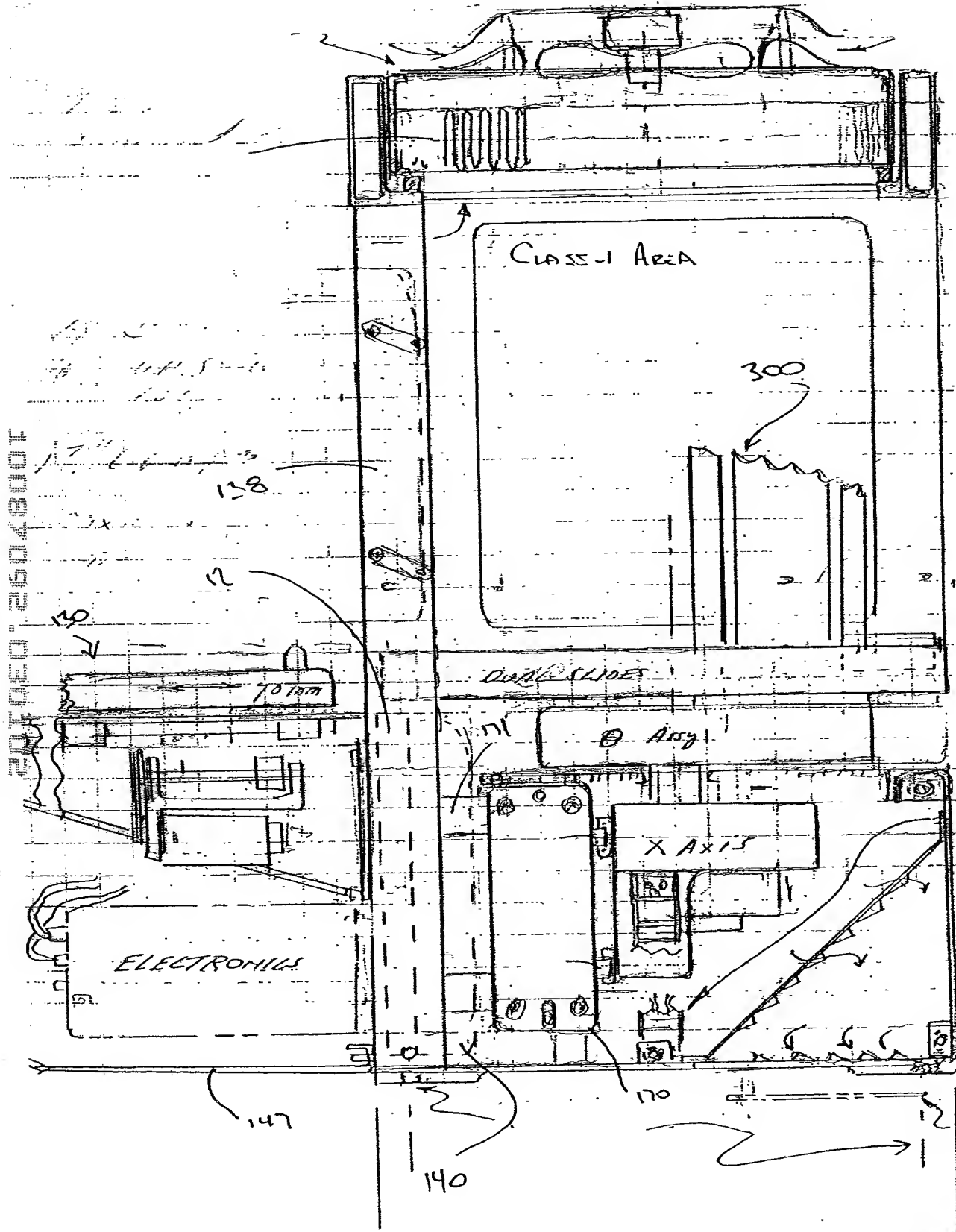


FIG. 12

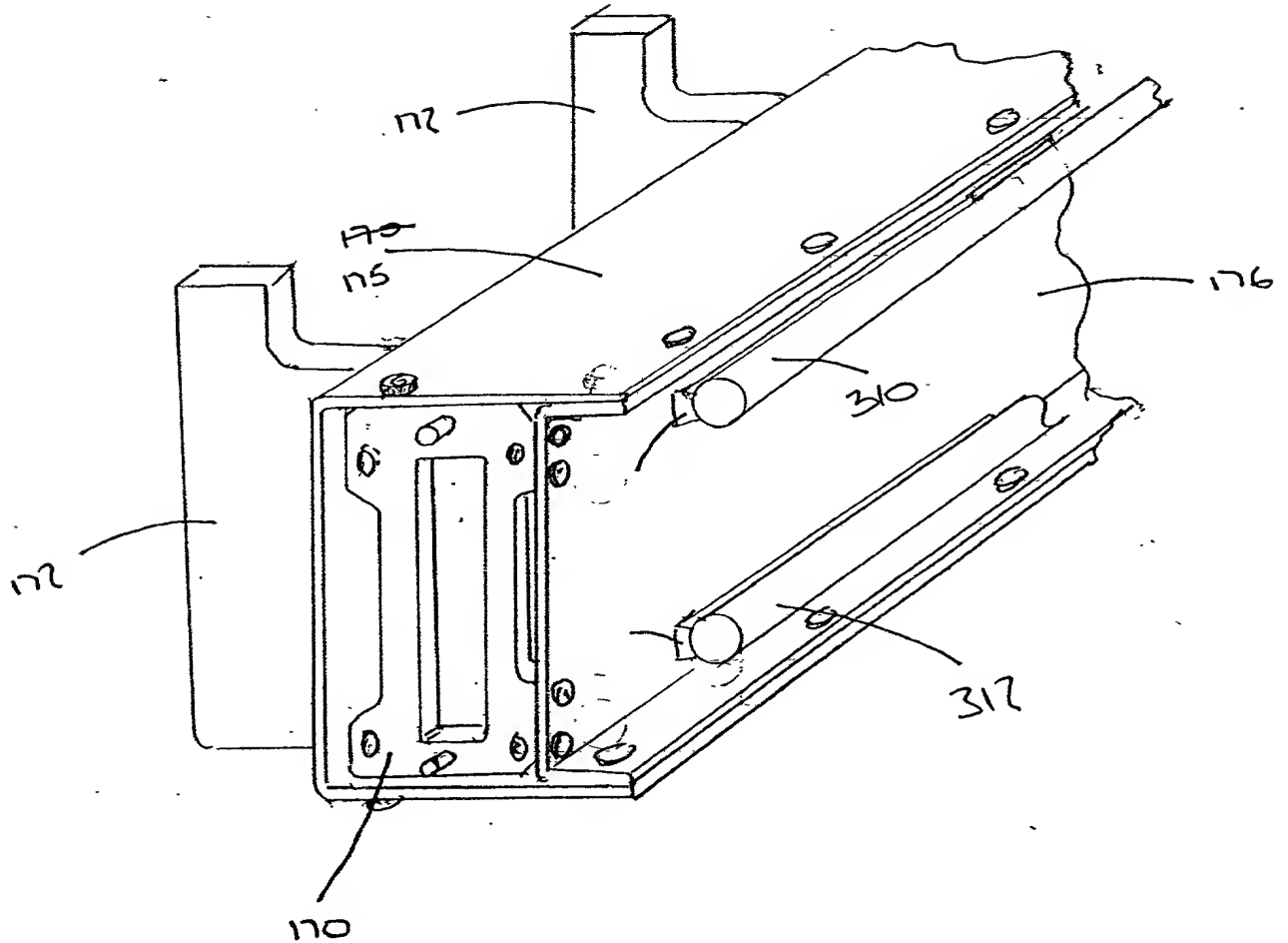


FIG. 13

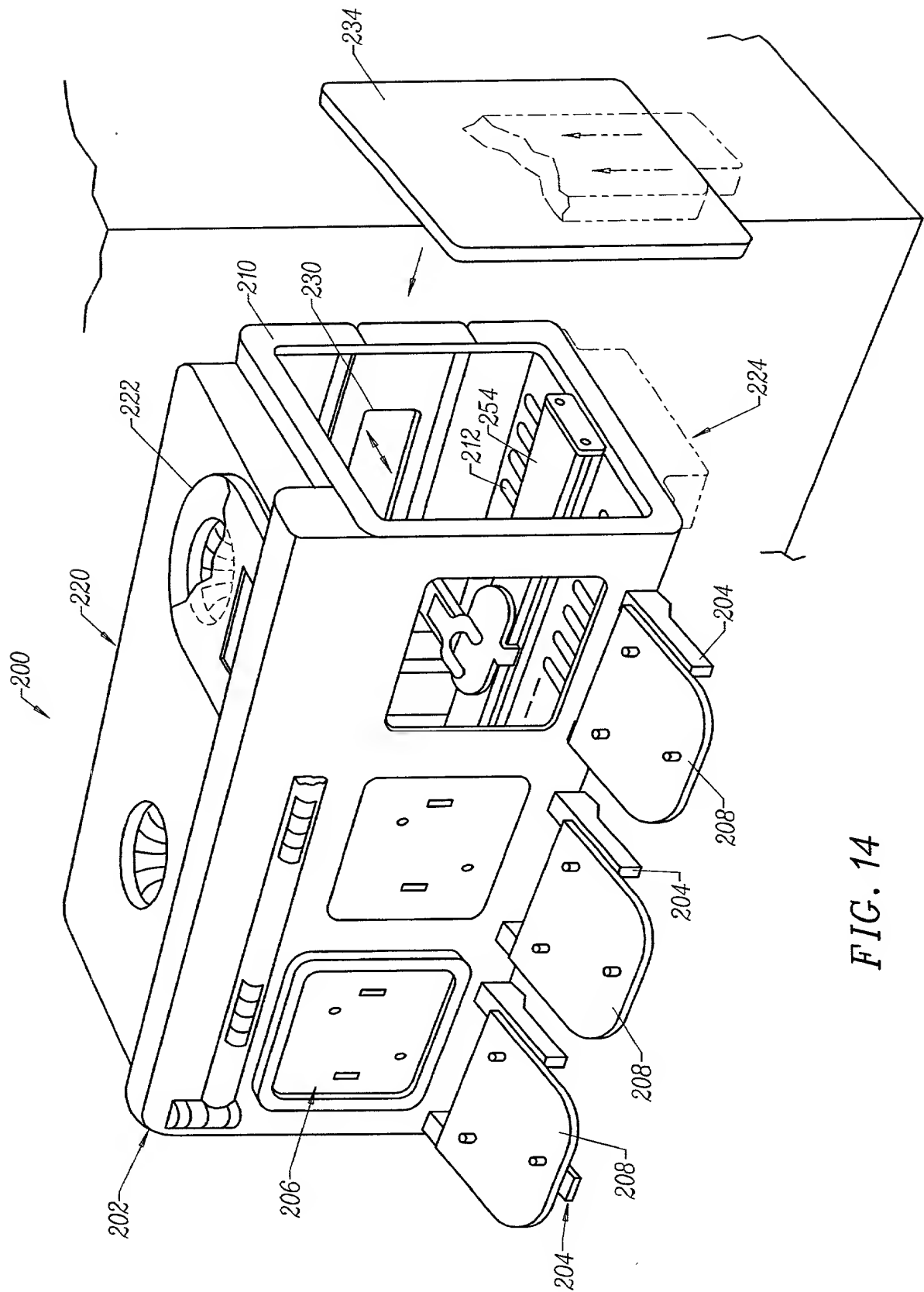


FIG. 14

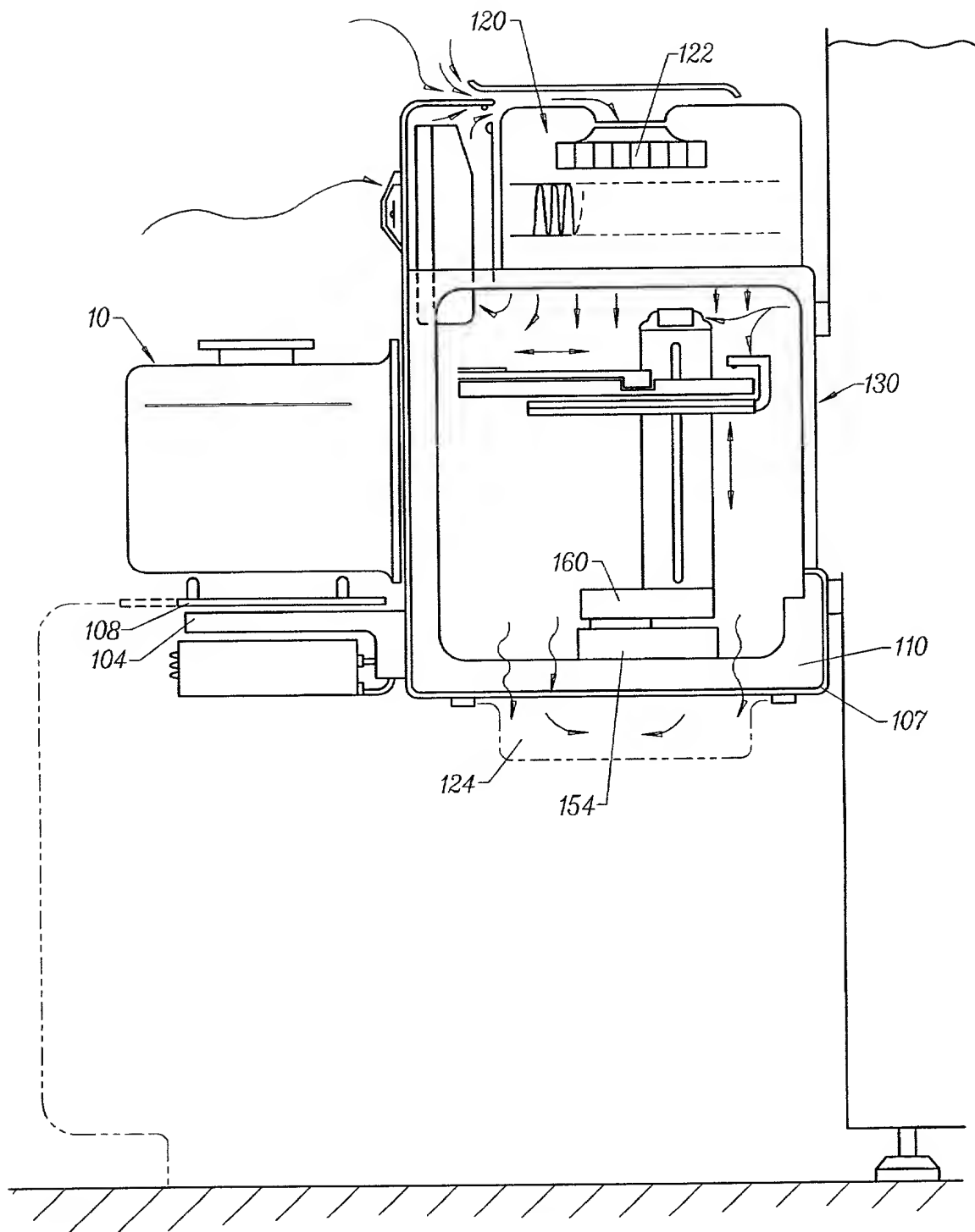


FIG. 15

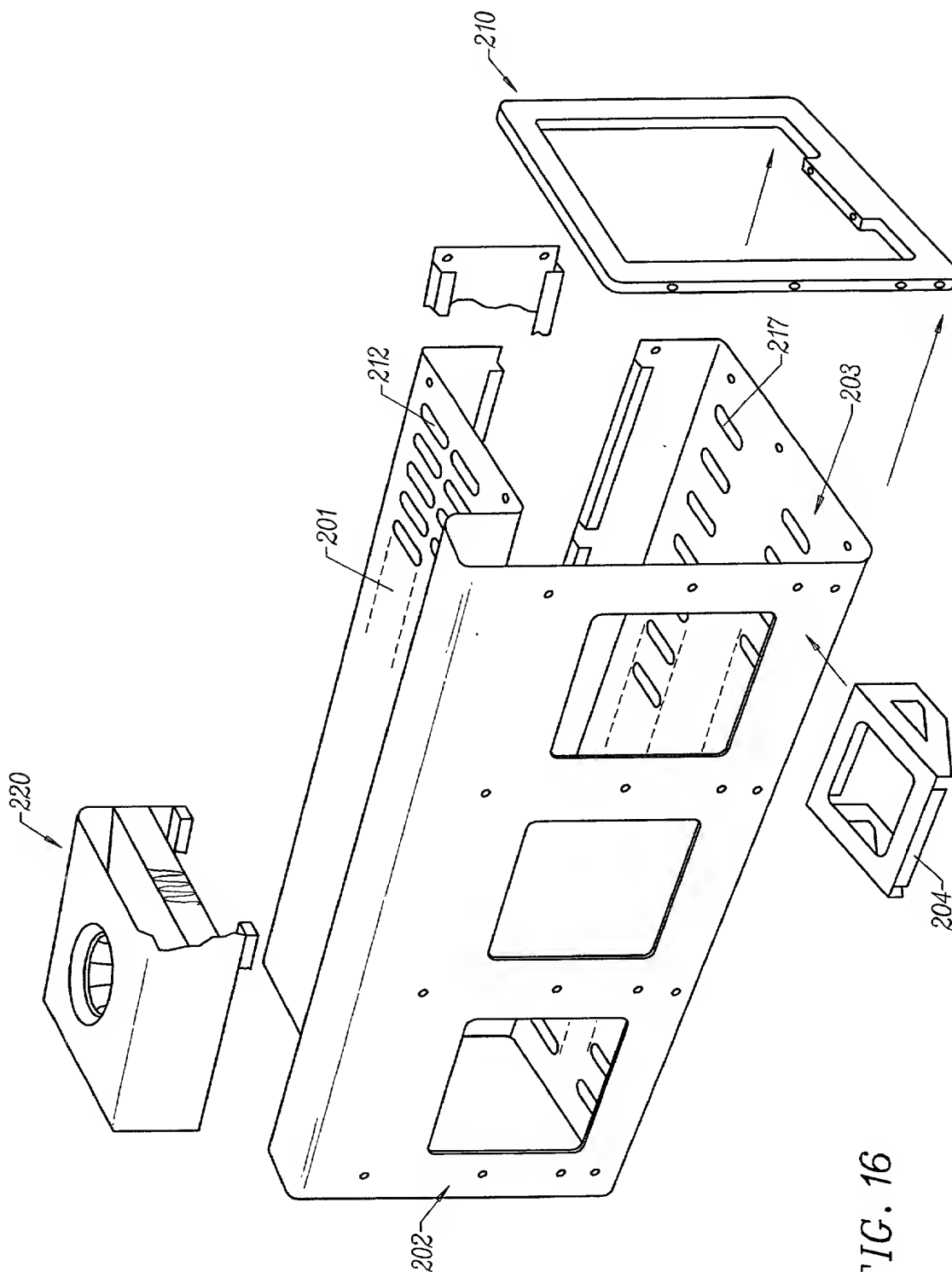
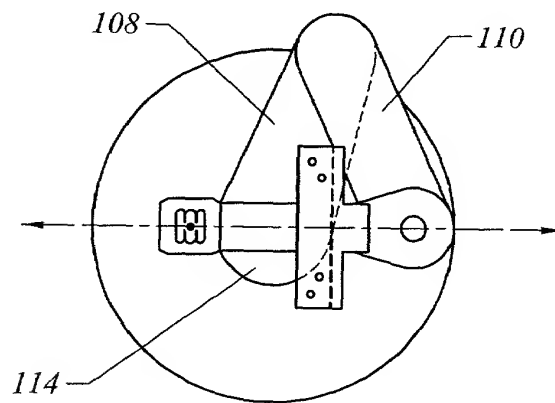


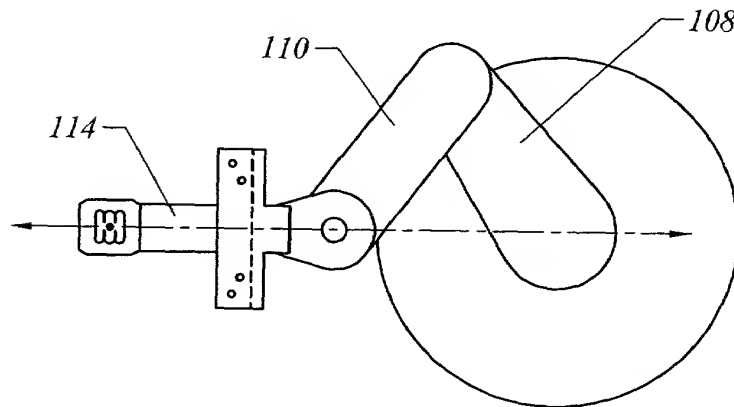
FIG. 16

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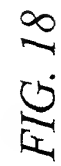




*FIG. 17A*  
(Prior Art)



*FIG. 17B*  
(Prior Art)



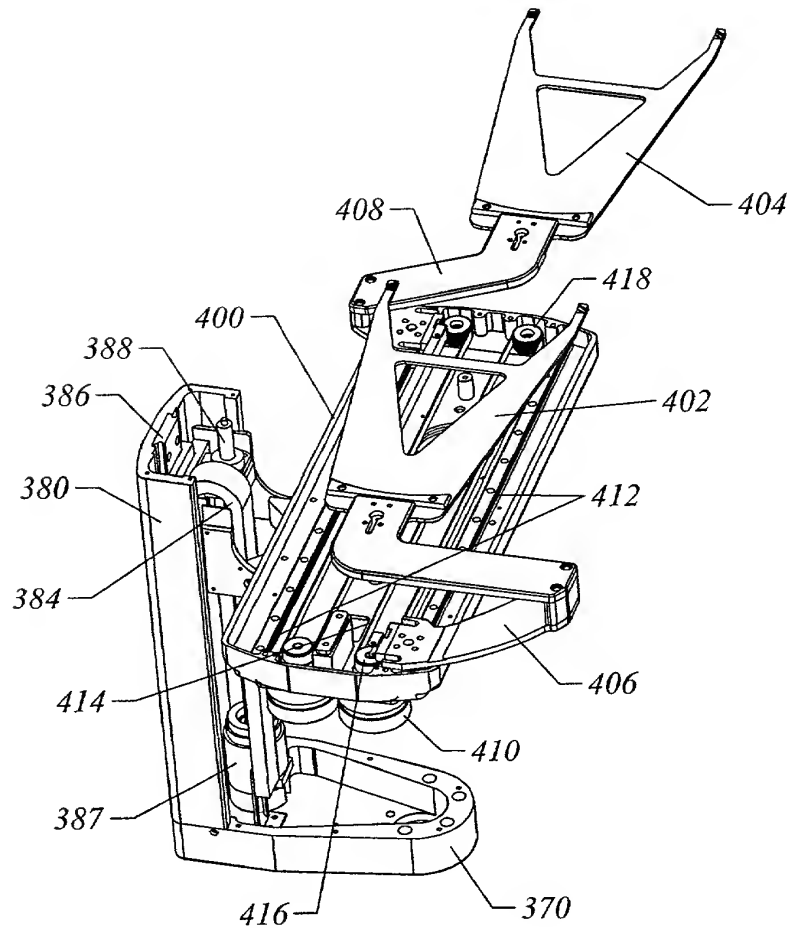


FIG. 19

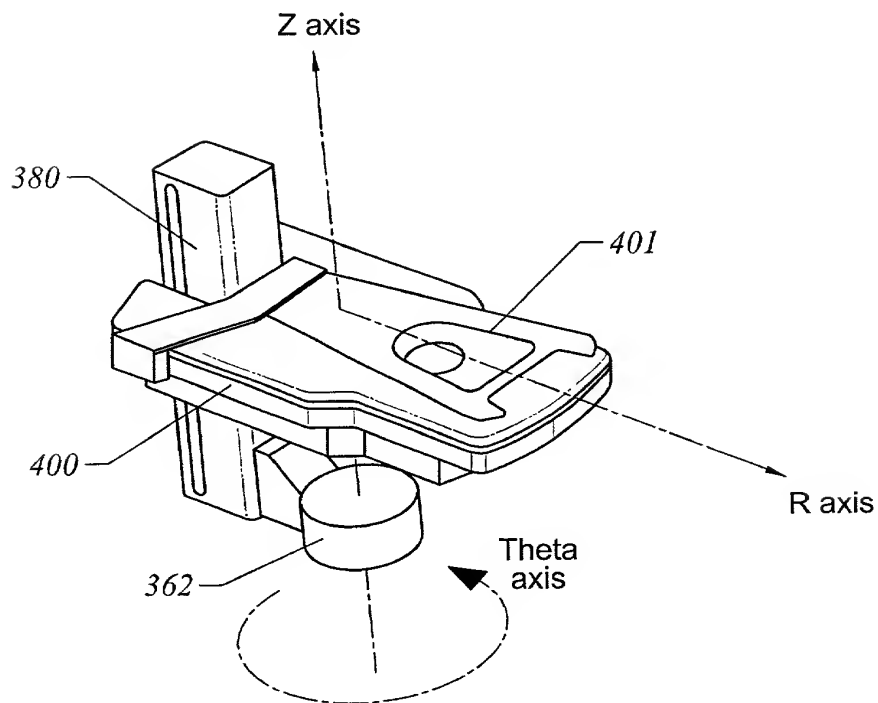


FIG. 20

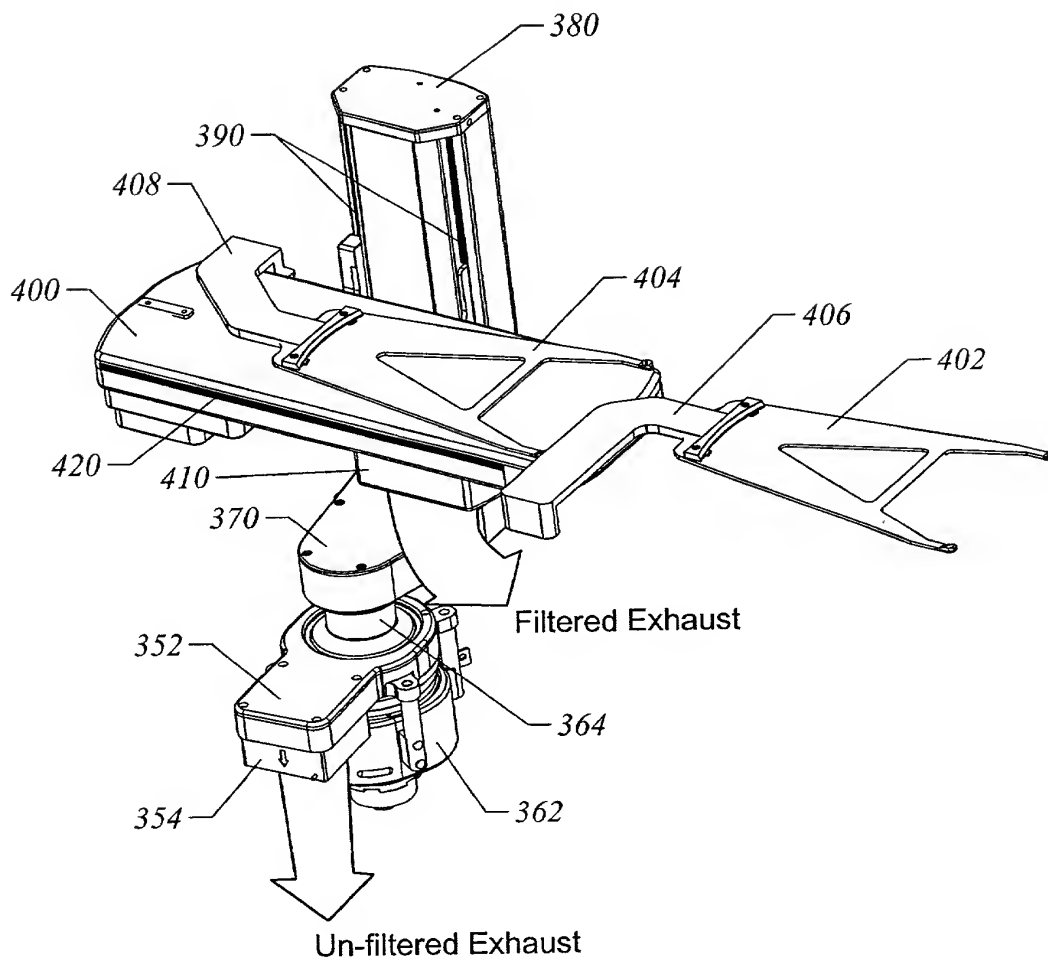


FIG. 21

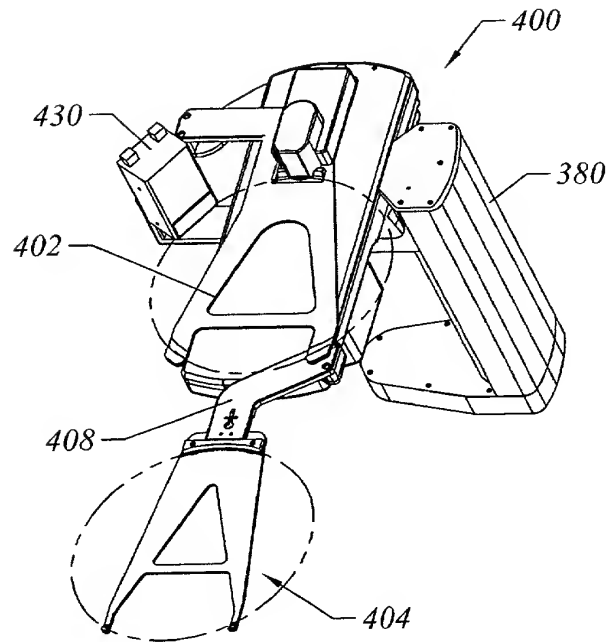


FIG. 22A

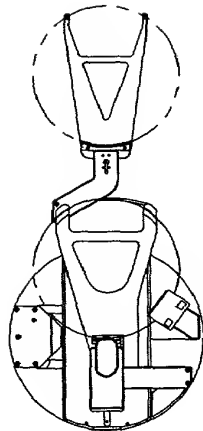


FIG. 22B

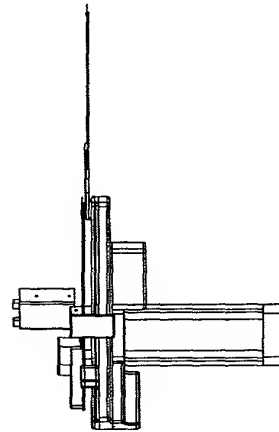


FIG. 22C

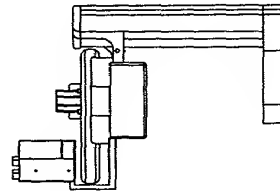


FIG. 22D

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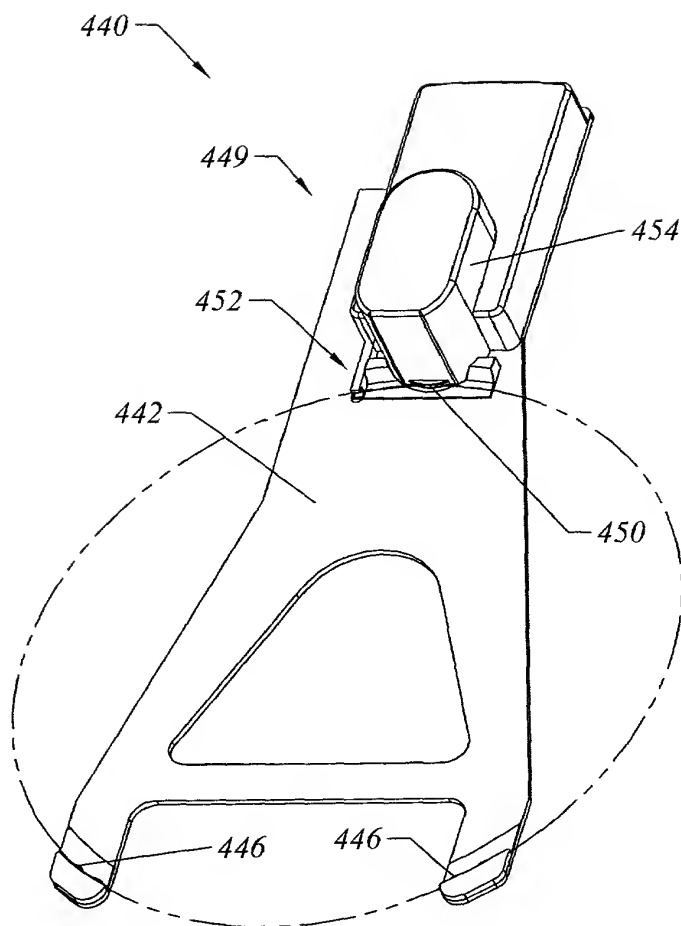


FIG. 23



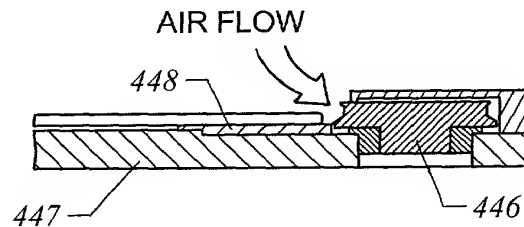


FIG. 24A

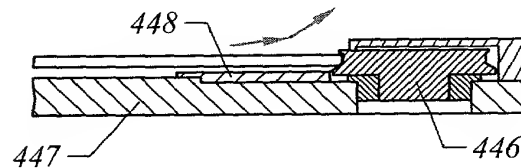


FIG. 24B

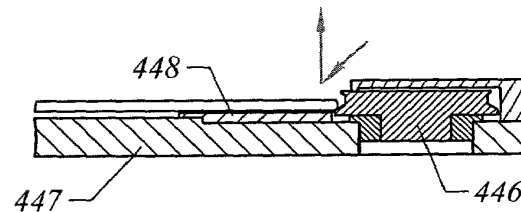


FIG. 24C

10087093.030103  
20100926078007

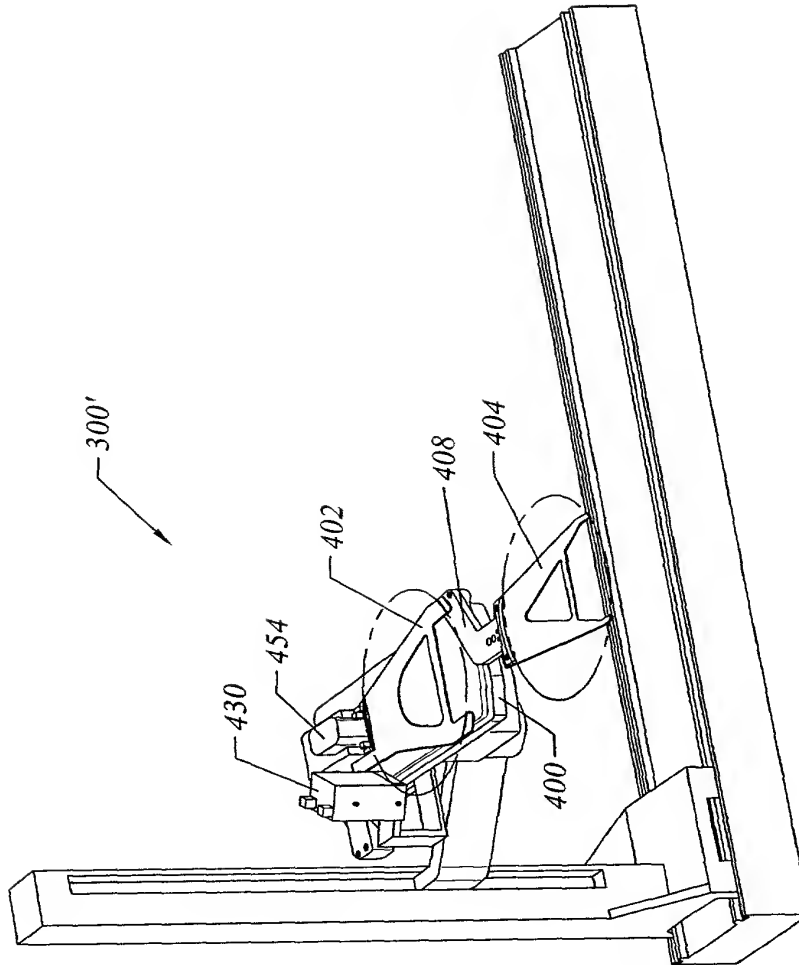


FIG. 25

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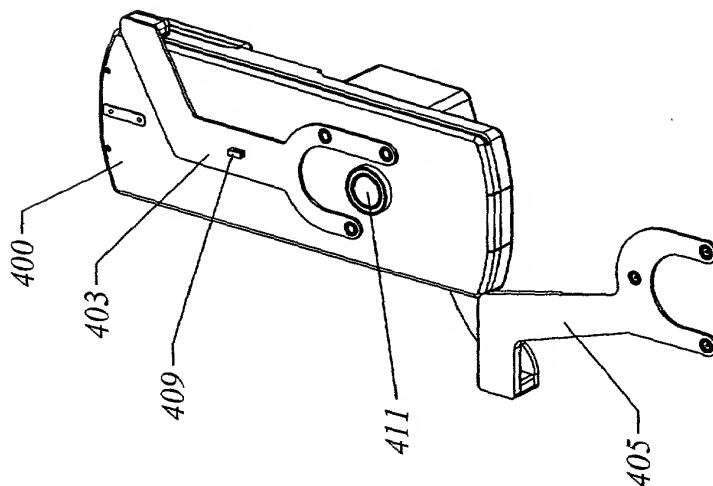


FIG. 26B

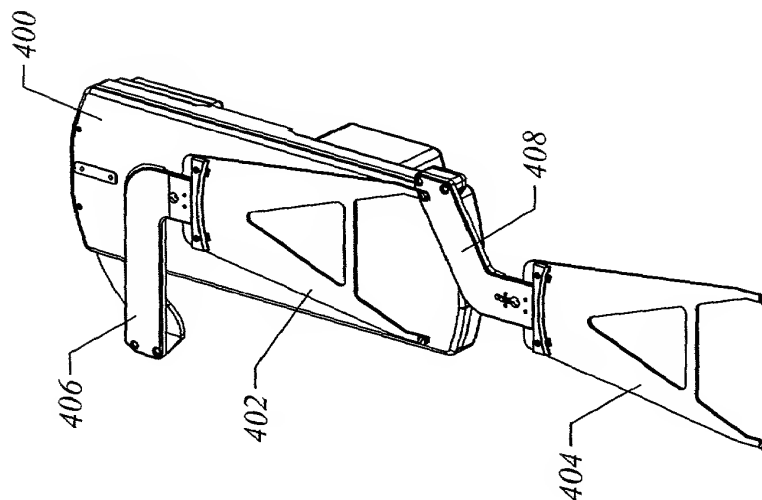
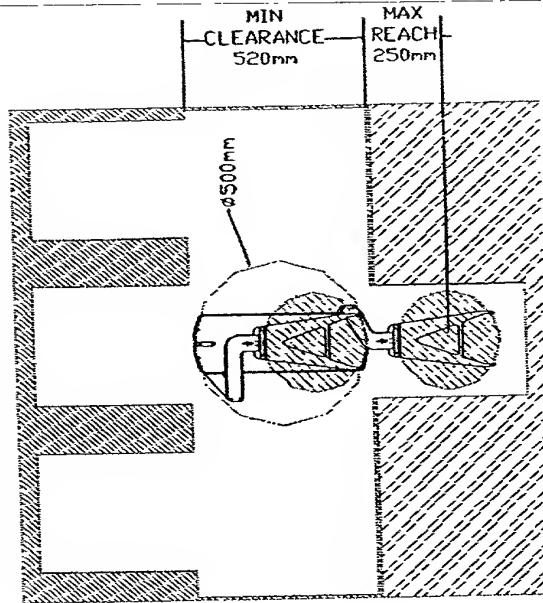
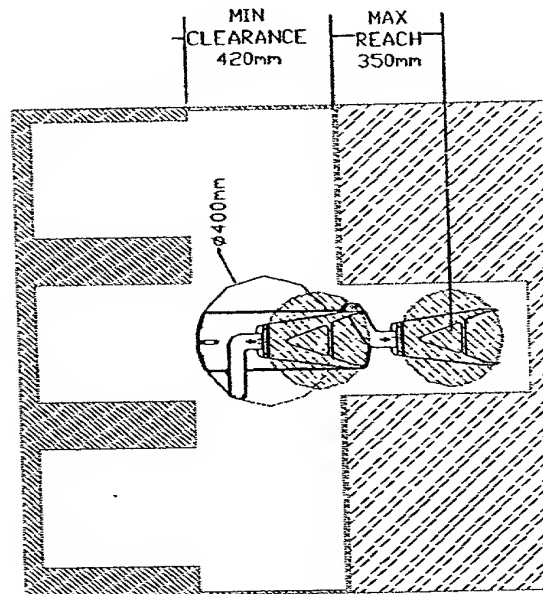


FIG. 26A

Conventional Linear Slide Robot



Off-Center Slide-Body (50mm offset)



EFEM Process Tool

FK.27A

FK.27B

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Example motion sequence for rapid swap slide-body with off center rotation axis.

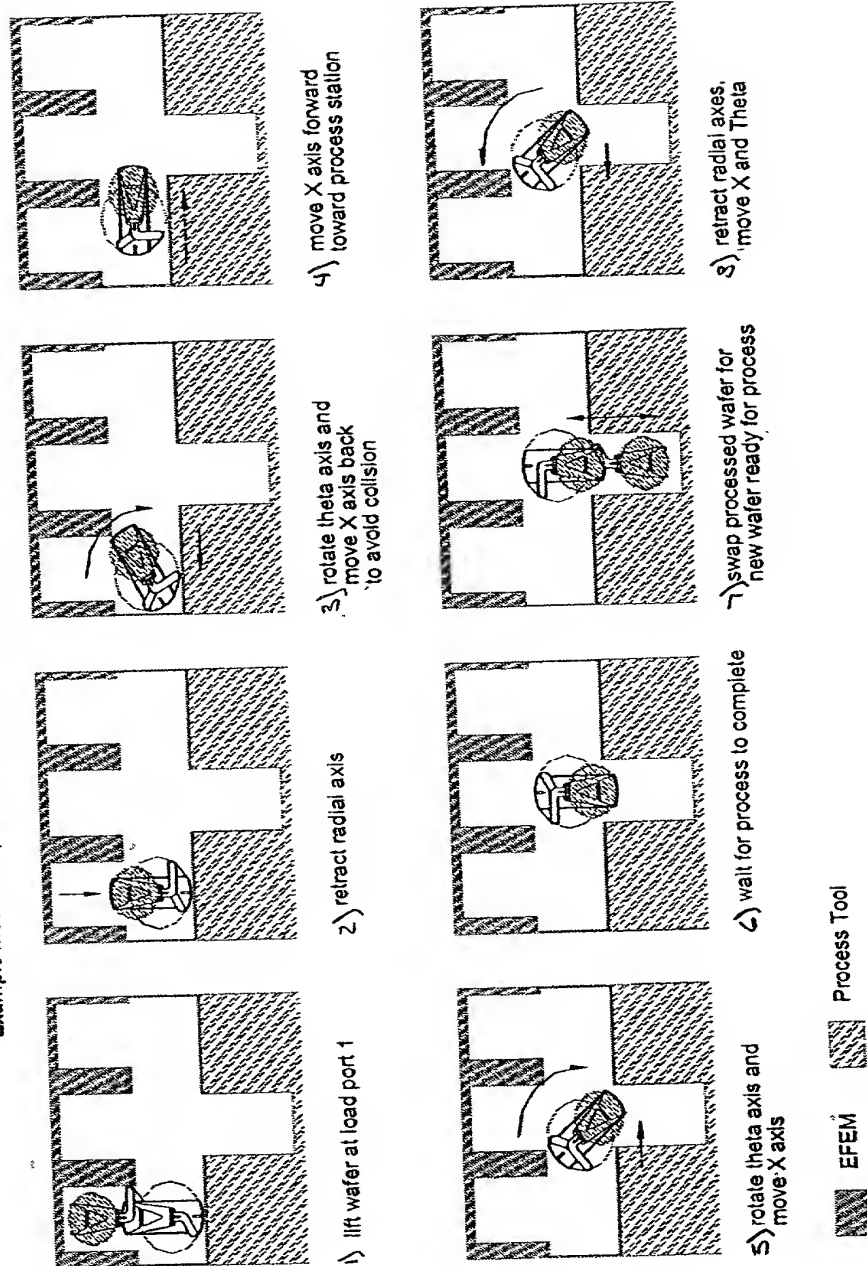


FIG. 28

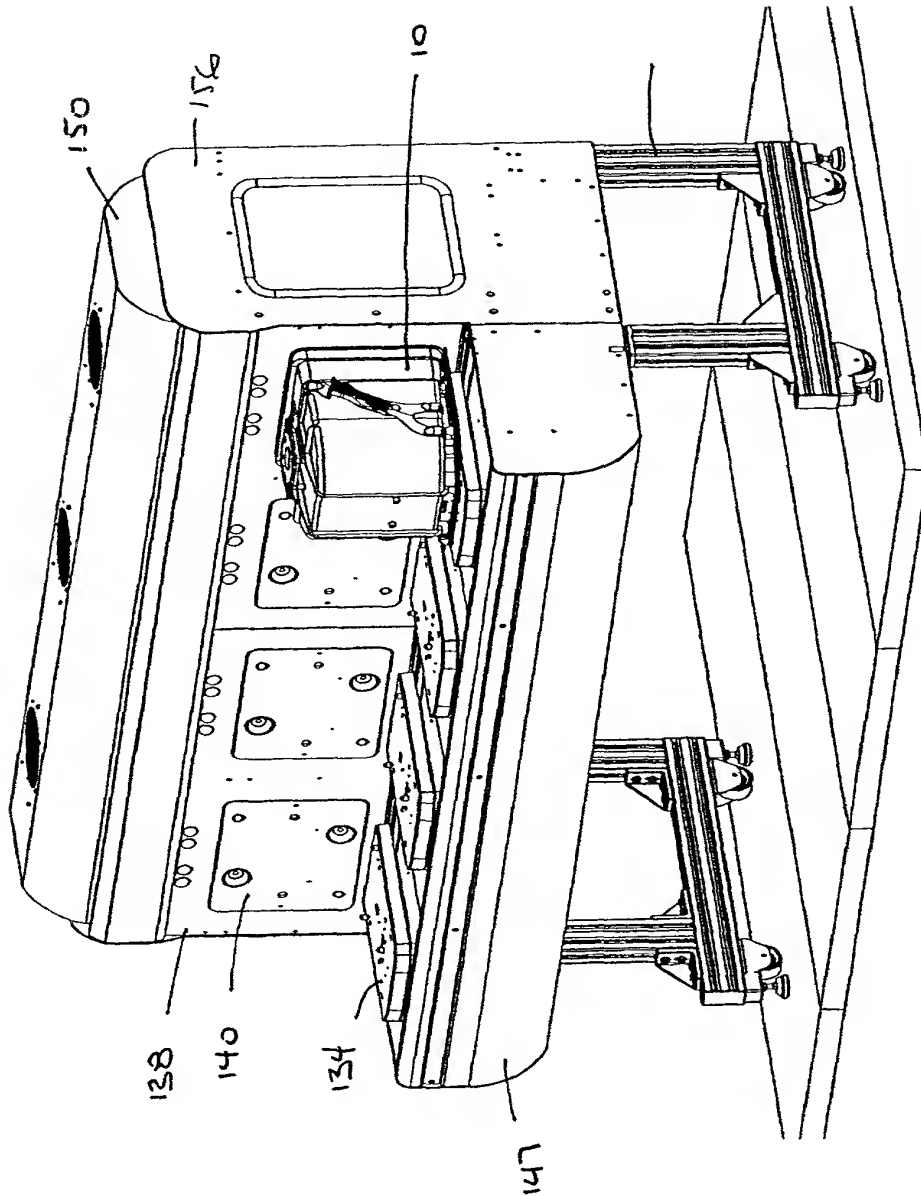


FIG. 29A

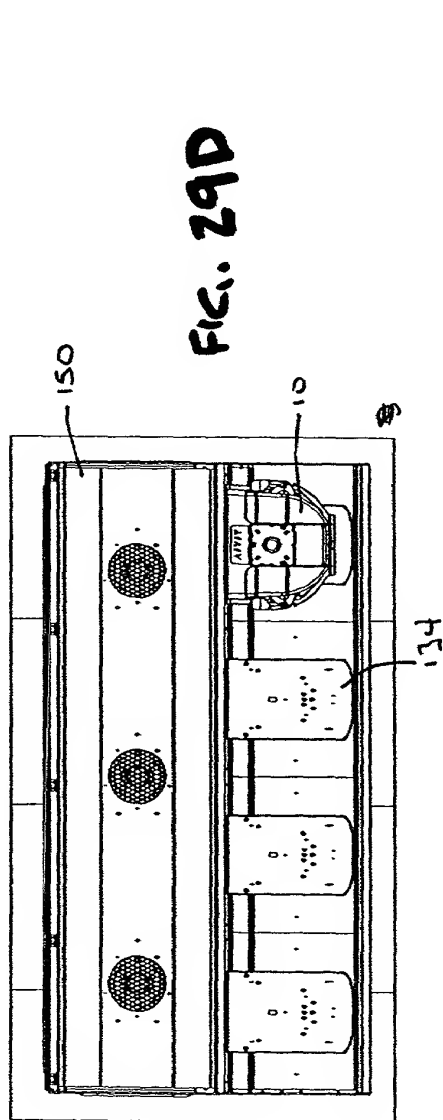


FIG. 29D

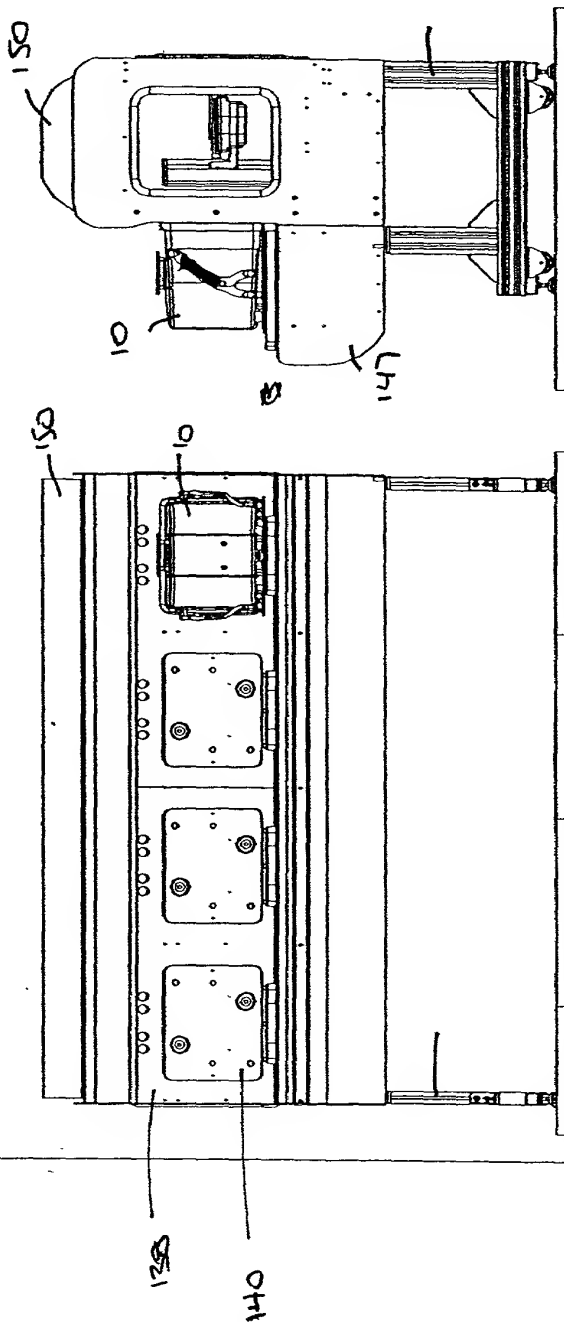


FIG. 29C

FIG. 29B

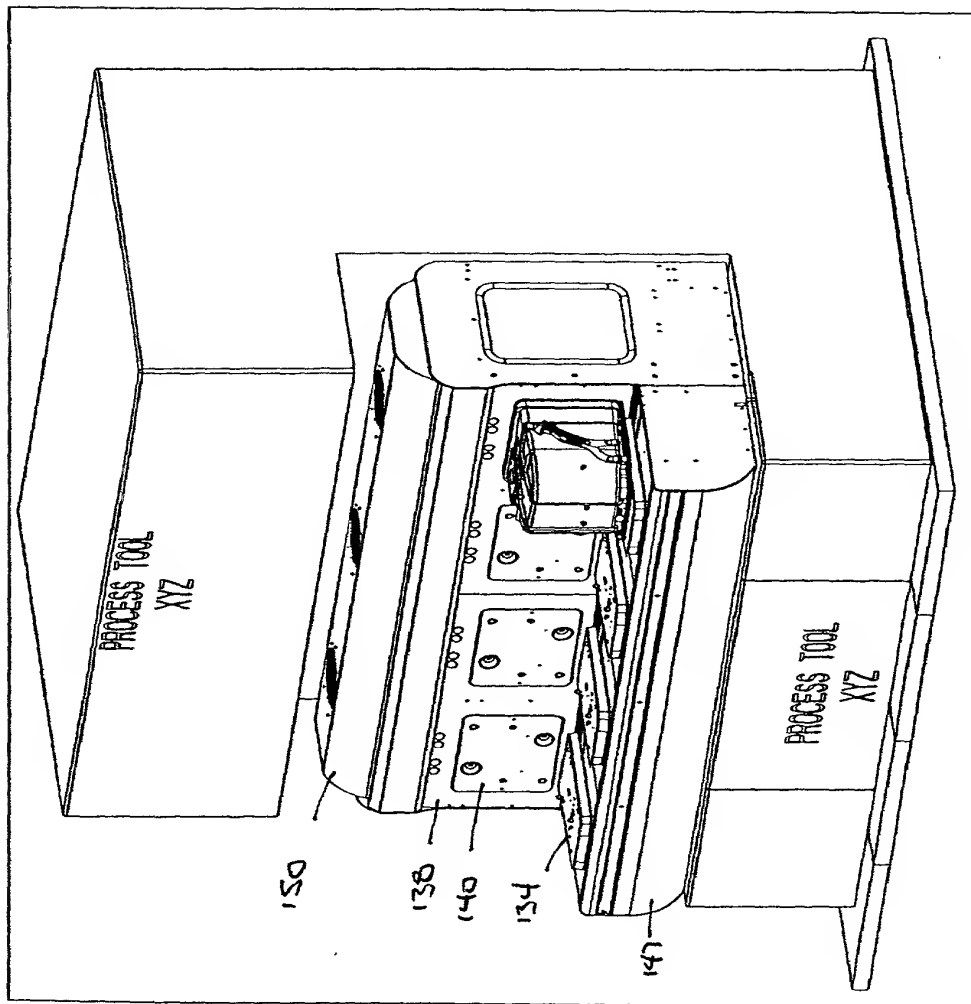


FIG. 30A



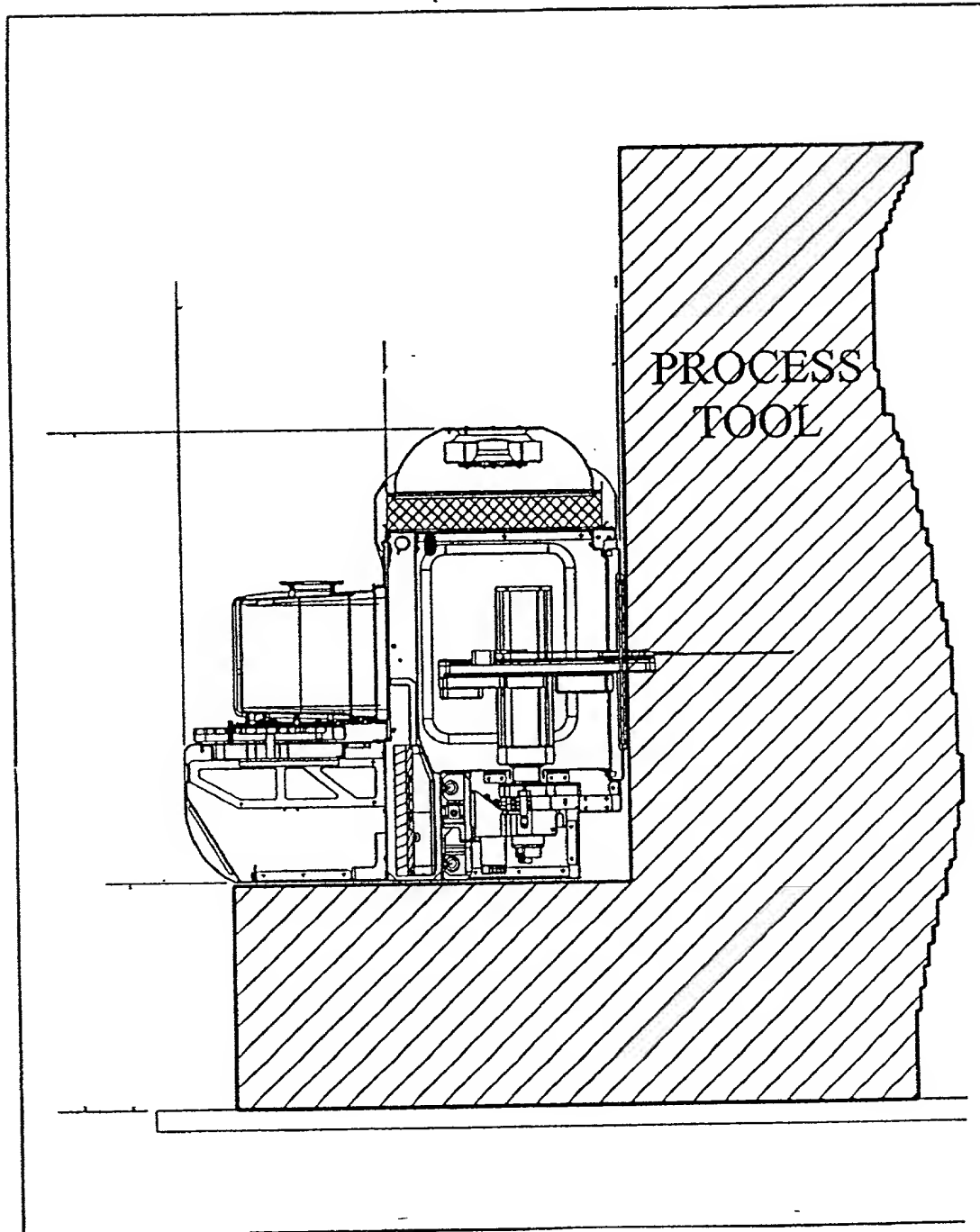


FIG. 30B

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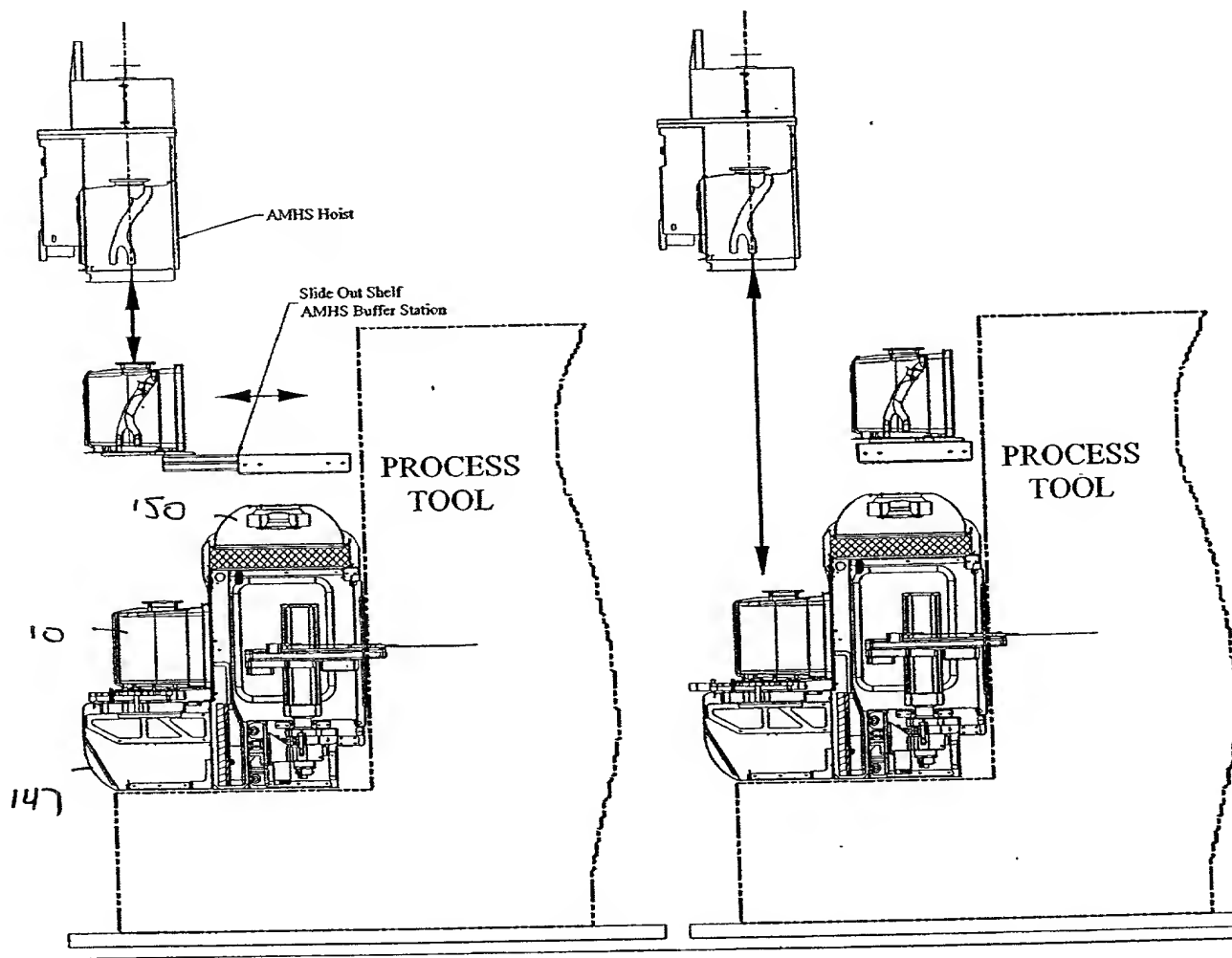


FIG. 31